

SIREN FALL FIELD DAY

– NOVEMBER 28, 2012



SWROC – Greenhouse Project



Academic Standard Application

- Group according to grade level/subject
- Receive data sheets
- Find and apply benchmarks from fall field day to data sheets
- Discuss and share data with group

Minnesota K-12 Academic Standards in Science – 2009

Four Content Strands

- 1) THE NATURE OF SCIENCE & ENGINEERING
- 2) PHYSICAL SCIENCE
- 3) EARTH & SPACE SCIENCE
- 4) LIFE SCIENCE

Each grade will have....

- 4 content strands

- 3 or 4 sub strands

- 2 or more standards

- 1 or more benchmarks (The benchmarks supplement the standards by specifying the academic knowledge and skills that schools must offer and students must achieve to satisfactorily complete a standard. Not all standards are found at every grade level.)

The benchmarks for each standard are designated by 5-digit codes. For example, in the code...

3.1.1.2.1

- The 3 refers to grade 3;
- The 1 refers to the first strand, *The Nature of Science and Engineering*;
- The 1 refers to the first substrand, *The Practice of Science*;
- The 2 refers to the second standard in that substrand, *Scientific inquiry is...*;
- The 1 refers to the first benchmark for that standard, *Generate questions that....*

On data sheet –

- 1) Record the 5-digit code on the data sheet
- 2) Write benchmark note on data sheet
- 3) Give us copy/keep copy for self

Science
Grade Level/Band 7



**Southeast Research
and Outreach Center**
UNIVERSITY OF MINNESOTA

Name: Ken Kraemer

School: _____

Siren Fall Field Day – November 28, 2012

Benchmark Code:

7.1.3.4.1

Benchmark Notes:

Use maps and other data sets to describe patterns and make predictions about natural systems in a life science context

7.1.3.4.2

Determine and use appropriate safety procedures, tools, measurements, graphs, and mathematical analyses to describe and investigate natural and designed systems in a life science context